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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2011; month=1; day=18; hr=13; min=19; sec=52; ms=563; ]

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Application No: 10572827 Version No: 3.0

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# SEQUENCE LISTING

<110> Feldmann, Kenneth  
Pennell, Roger  
Kwok, Shing  
Dang, Van-Dinh  
Zhang, Hongyu

<120> NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR  
INCREASING PLANT SIZE AND INCREASING THE NUMBER AND SIZE OF LEAVES

<130> 2750-1573PUS1

<140> 10572827  
<141> 2011-01-05

<150> PCT/US03/25997  
<151> 2003-08-18

<160> 50

<170> PatentIn version 3.0

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<213> Zea mays subsp. mays

<220>  
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<213> Zea mays subsp. mays

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 ctgtatataa gctctatgga ggctcttttc gtcgatcaac tgtacaacca cgggagccgt 180  
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<213> Zea mays subsp. mays

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          20          25          30

Gly Trp Thr Asp Glu Arg His Arg Leu Tyr Ile Ser Ser Met Glu Ala
          35          40          45

Ser Phe Val Asp Gln Leu Tyr Asn His Gly Ser Arg Pro Arg Asn Ala
          50          55          60

Asn Gly Thr Ala Phe Lys Ala Leu Arg Arg Glu Tyr Val Glu Tyr Glu
65          70          75          80

Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys Gly Val Pro
          85          90          95

Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp Gly Gly Asn
          100          105          110

Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp Leu Glu Ser
          115          120          125

Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His Gly Arg Glu
          130          135          140

Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu Ser Arg Glu
145          150          155          160

Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala Glu Thr Glu
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Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr Met Ile Asn
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<212> DNA
<213> Zea mays subsp. mays

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ggagaacccc agcttctcca tgaaagtaga gaggtctctg atcaaaattt tgctgacgac 420
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<213> Zea mays subsp. mays

<220>

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<222> (1)..(163)

<223> ceres Seq. ID no. 12355479

<400> 5

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Met Glu Ala Ser Phe Val Asp Gln Leu Tyr Asn His Gly Ser Arg Pro
          20           25           30

```

```

Arg Asn Ala Asn Gly Thr Ala Phe Lys Ala Leu Arg Arg Glu Tyr Val
          35           40           45

```

```

Glu Tyr Glu Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys
          50           55           60

```

```

Gly Val Pro Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp
          65           70           75           80

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```

Gly Gly Asn Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp
          85           90           95

```

```

Leu Glu Ser Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His
          100          105          110

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```

Gly Arg Glu Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu
          115          120          125

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```

Ser Arg Glu Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala
          130          135          140

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Glu Thr Glu Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr

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Met Ile Asn

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<213> Zea mays subsp. mays

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gtgccaaggg gggctaagtg ctgcggcggt cctgcaaata cttggatgca gcatttcagg 180  
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gacgcttgat agggagaacc ccagcttctc catgaaagta gagaggtctc tgatcaaaat 360  
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Glu Tyr Glu Lys Thr Asp Ala Pro Val Arg Arg Gly Ala Lys Cys Cys  
35 40 45  
Gly Val Pro Ala Asn Pro Trp Met Gln His Phe Arg Pro Arg Ser Asp  
50 55 60  
Gly Gly Asn Asn Ala Arg Gly Asp Gly Leu Gly Asp Ser Val Gly Asp  
65 70 75 80



Leu Glu Ser Gly Thr Glu Ala Asn Arg Lys Ser Leu Ser Ala Ser His  
                     85                                    90                                    95  
  
 Gly Arg Glu Arg Asp Ala Cys Glu Gly Glu Pro Gln Leu Leu His Glu  
                     100                                    105                                    110  
  
 Ser Arg Glu Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala  
                     115                                    120                                    125  
  
 Glu Thr Glu Ser Met Lys Ala Tyr Lys Lys Arg Arg Leu Ser Arg Thr  
                     130                                    135                                    140  
  
 Met Ile Asn  
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 <212> DNA  
 <213> Zea mays subsp. mays  
  
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 agagcgcacc tgaattccac cgaaatccgc cacggtagtt cttgcctagg tgtgtcgttg 240  
  
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 tatttgttcg tctcgtgcct tctcccatc ctggttagaa agaatatcg aagggggatt 420  
  
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 ggaaaccatc cgcacgacgc aaatggcgct ggcttcaagg ttctccgcag ggggggtgtg 780  
  
 gagtacatcg agtatgagaa gaccagtgcc cctgtgcgaa gtggggctaa atgctgcgtc 840

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tcaagtaa	at	tcgcaggaac	aattagctta	gcctgttgca	agaatcgata	1200
ttaaagaag	g	tgtaagatg	atgggacatg	gctttcaaaa	cttcagctg	1260
gtagccaaga	c	cacactgaat	ccgaaggaag	gcgttgaagg	gtagctgtta	1320
gatataaaga	g	tactggggc	agttagcatc	ggcattttta	gcggatttaa	1380
tgatatctg	t	cttctgtct	tcatcagtag	tgctgcttag	tacctactc	1440
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<211> 585

<212> DNA

<213> Zea mays subsp. mays

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tatgagaaga	ccagtgtccc	tgtgcgaagt	ggggctaaat	gctgcgtccc	tgcaaatcct	300
tggtatccggc	atttcaggcc	acgtgactgc	ggtagtaacg	cacagagtga	cgcggtcgag	360
gcctcagtgg	gcgaccatga	gtcgggtact	caggcaagcc	gcaagagccc	ttcagtgtct	420
catggaagg	g	aacggggagc	ttgtaaggga	gaacccca	ttctacatga	480
gtctctgatc	aaaat	tttgc	tgacgatgag	gctgaagctg	aaacagaatc	540
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<211> 195

<212> PRT

<213> Zea mays subsp. mays

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 <222> (1)..(195)  
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 Trp Thr Asp Glu Arg His Met Leu Tyr Ile Ser Ser Met Glu Ala Ser  
 35 40 45  
 Phe Val Asp Gln Leu Tyr Asn His Gly Asn His Pro His Asp Ala Asn  
 50 55 60  
 Gly Ala Gly Phe Lys Val Leu Arg Arg Gly Val Trp Glu Tyr Ile Glu  
 65 70 75 80  
 Tyr Glu Lys Thr Ser Ala Pro Val Arg Ser Gly Ala Lys Cys Cys Val  
 85 90 95  
 Pro Ala Asn Pro Trp Ile Arg His Phe Arg Pro Arg Asp Cys Gly Ser  
 100 105 110  
 Asn Ala Gln Ser Asp Ala Val Glu Ala Ser Val Gly Asp His Glu Ser  
 115 120 125  
 Gly Thr Gln Ala Ser Arg Lys Ser Pro Ser Val Ser His Gly Arg Glu  
 130 135 140  
 Arg Gly Ala Cys Lys Gly Glu Pro Gln Ile Leu His Glu Ser Thr Glu  
 145 150 155 160  
 Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu Ala Glu Thr Glu  
 165 170 175  
 Ser Met Lys Ala Cys Lys Lys Arg Arg Leu Ser Arg Ala Leu His Ser  
 180 185 190  
 Gly Ala Glu  
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ggtactcagg caagccgcaa gagcccttca gtgtctcatg gaagggaacg gggagcttgt      360
aaggggagaac cccagattct acatgaaagt acagaggtct ctgatcaaaa ttttgctgac      420
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<210> 12
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<212> PRT
<213> Zea mays subsp. mays

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His Asp Ala Asn Gly Ala Gly Phe Lys Val Leu Arg Arg Gly Val Trp
          35          40          45

Glu Tyr Ile Glu Tyr Glu Lys Thr Ser Ala Pro Val Arg Ser Gly Ala
          50          55          60

Lys Cys Cys Val Pro Ala Asn Pro Trp Ile Arg His Phe Arg Pro Arg
65          70          75          80

Asp Cys Gly Ser Asn Ala Gln Ser Asp Ala Val Glu Ala Ser Val Gly
          85          90          95

Asp His Glu Ser Gly Thr Gln Ala Ser Arg Lys Ser Pro Ser Val Ser
          100          105          110

His Gly Arg Glu Arg Gly Ala Cys Lys Gly Glu Pro Gln Ile Leu His
          115          120          125

Glu Ser Thr Glu Val Ser Asp Gln Asn Phe Ala Asp Asp Glu Ala Glu
          130          135          140

Ala Glu Thr Glu Ser Met Lys Ala Cys Lys Lys Arg Arg Leu Ser Arg

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145 150 155 160

Ala Leu His Ser Gly Ala Glu  
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atcgagtatg agaagaccag tgccctgtg cgaagtggg ctaaagtctg cgtccctgca 180  
  
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Leu Arg Arg Gly Val Trp Glu Tyr Ile Glu Tyr Glu Lys Thr Ser Ala  
35 40 45  
  
Pro Val Arg Ser Gly Ala Lys Cys Cys Val Pro Ala Asn Pro Trp Ile  
50 55 60  
  
Arg His Phe Arg Pro Arg Asp Cys Gly Ser Asn Ala Gln Ser Asp Ala  
65